

### US005607472A

# United States Patent [19]

# Thompson

[54] INTRAOCULAR LENS FOR RESTORING

[54]	INTRAOCULAR LENS FOR RESTORING ACCOMMODATION AND ALLOWS ADJUSTMENT OF OPTICAL POWER						
[75]	Inventor: Keith P. Thompson, Atlanta, Ga.						
[73]	Assignee: Emory University, Atlanta, Ga.						
[21]	Appl. No.: 437,792						
[22]	Filed: May 9, 1995						
	Int. Cl. <sup>6</sup> A61F 2/1   U.S. Cl. 623/4   Field of Search 623/4	6					
[56] References Cited							
U.S. PATENT DOCUMENTS							
4 4 5	449,257 5/1984 Koeniyer 623/   883,485 11/1989 Patel 623/   932,966 6/1990 Christic et al 623/   171,266 12/1992 Wiley et al 623/   266,074 11/1993 Nishi et al 623/	6					

[11]	Patent	Number:

5,607,472

[45] **Date of Patent:** 

Mar. 4, 1997

5,366,502	11/1994	Patel	623/6				
FOREIGN PATENT DOCUMENTS							

1168238	7/1985	U.S.S.R	623/6
9208422	5/1992	WIPO	623/6

Primary Examiner—Mary Beth Jones Attorney, Agent, or Firm—James W. Kayden; Thomas, Kayden, Horstemeyer & Risley

#### [57] ABSTRACT

An accommodating lens is designed to be inserted into a substantially intact capsulary bag having a capsulorexis opening in its anterior wall. The lens has an accommodating portion adapted to be affixed to the anterior wall of the capsulary bag adjacent the opening. The focal length of the deformable portion is alterable by insertion of a deforming material into the deformable portion thereof. In another embodiment, the focal length of a second deformable portion of the lens is varied by insertion or extraction of deformable material into or from the second portion.

## 43 Claims, 3 Drawing Sheets

